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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/724,714	11/28/2000	A.J. Paul Carew	066303.0111	7701

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EXAMINER

MEHRA, INDER P

ART UNIT	PAPER NUMBER
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2666

DATE MAILED: 07/07/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

B

# Office Action Summary

Application No.

09/724,714

Applicant(s)

CAREW ET AL.

Examiner

Inder P Mehra

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-57 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 54-57 is/are allowed.
- 6) ☐ Claim(s) 1-10, 12-24, 26-28 and 32-53 is/are rejected.
- 7) ☒ Claim(s) 11, 25 and 29-31 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2-5&7.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

**DETAILED ACTION**

***Response to Amendment***

1. This is in response to application dated 11/28/00. Claims 1-57 are now pending.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 23 recites the limitation " the packetization module" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim 23 recites the limitation " the selected compression module " in line 6. There is insufficient antecedent basis for this limitation in the claim.

***Information Disclosure Statement***

4. The information disclosure statement filed 1/3/01 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because it does not enclose the relevant documents. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

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*Specification*

5. The disclosure is objected to because of the following informalities:

Refer to page 1 lines 2-5. Provide serial number and remove docket number.

Appropriate correction is required.

Refer to page 27 line 29, Change "management module 110" to "management module 100", as shown in fig. 5.

Appropriate correction is required.

Refer to page 29 line 27, Change "data link 18" to "data link 28", refer to figs. 5 and 6.

Appropriate correction is required.

Refer to page 31 line 24. Analog line#165 is not shown in figs 6 and 7. It is shown as 26a in fig. 4.

Appropriate correction is required

*Claim Rejections - 35 USC § 103*

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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7. Claims 1-8, 10, 15-22, 24, 32-38, 42-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Focsaneanu et al** (US Patent No. 5,610,910), hereinafter, Focsaneanu; and further in view of **Chao et al** (US Patent No. 5,050,164), hereinafter Chao.

For claims 1, 15, 32, 43, Focsaneanu discloses a gateway (access module 208, refer to col. 4 lines 64-65) for communicating telecommunication information, refer to 208 of fig. 7, refer to col. 4 lines 40-67; comprising:

step of extracting information content from user/subscriber profile/file to determine required services---between CPE and the communication network; determining appropriate routing; (*telecommunication interface for a first subscriber and second telecommunication information for a second subscriber from a telecommunication network*), refer to col. 4 lines 40 –col. 5 line 12.

(*one or more packetization* (extracting information content from user profile, refer to col. 5 line 4, determining the protocol, routing and address refer to col. 5 lines 6-8 and 1-12) *modules operable to generate first data packets for communicating the first telecommunication information according to a first data communication protocol associated with the first subscriber and to generate second data packets for communicating the second telecommunication information according to a second data communication protocol associated with the second subscriber*), refer to col. 6 line 53-col. 7 line 50;

Focsaneanu discloses a memory operable to store subscriber profiles---telecommunication interface, as recited by claim 32, (an access module (gateway), further, includes a storage (memory) for storing information concerning user profile (subscriber profile), refer to col. 5, lines 2-6; database (memory), refer to col. 8 lines 14-16;

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Focsaneanu discloses a telecommunication interface -----subscriber, as recited by claim 32; refer to col. 10 line 46-col. 11 line 6.

Focsaneanu discloses packetized data traffic and packetized voice, refer to col. 11 lines 1-15, ( a packetization module -----information associated with a subscriber (user profile, col. 11 line 2) from the data packets using a data communication protocol (ATM and Frame Relay, col. 11 line 6)-----subscriber, as recited by claim 32);

Focsaneanu does not disclose expressly, using terms: “a first data communication protocol or second data communication protocol, first subscriber, second subscriber, first telecommunication information, second telecommunication information etc.”;

Chao discloses, a unique protocol capable of handling services with multiple priorities (unique protocol is unique to each subscriber’s profile as stored /desired by subscriber”, refer to col. 17 lines 5-7;

It would have been obvious to a person of ordinary skill in the art at the time of the invention to use the protocol unique to the subscriber as prescribed in subscriber’s profile, as taught by Chao. The use of unique protocol in broadband network is advantageous to CPE. The suggestion/motivation to do so would have been to provide desired characteristics for customer premises network which uses broadband to deliver all services.

For claims 2, 4, 16, 18, 33, 35, 44, and 46, Focsaneanu discloses each of a plurality subscribers is associated with a separate telecommunication interface, refer to col. 4 lines 45-48; and “the telecommunication interface module is further operable-----the first telecommunication”, refer to col. 4 lines 45-48, col. 8 lines 11-25.

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For claims 3, 17, 34 and 45, Focsaneanu discloses the telecommunication interface---- analog line----switch, POTs, refer to col. 7 lines 29-32 and fig. 7, TR 303 col. 10 line 51.

For claims 5, 19, 36 and 47, Focsaneanu discloses, “the subscriber identifier is a name address, or telephone number, refer to col. 8 lines 16-22, 30, col. 13 lines 62-67.

For claims 6, 20, 37 and 48, Focsaneanu discloses, “one or more compression modules operable-----subscriber”, refer to (compression techniques, col. 7 line 3, 552 col. 11, lines 20-22, col. 12 line 60.

For claims 7 and 21, Focsaneanu discloses all the features of claim 6 including compression techniques at gateway, refer to col. 7 line 3 ; and memory operable to store first subscriber profile----compression algorithm----, as recited by claims 7 and 21, database for packet assembly and disassembly, refer to col. 8 lines 22-24 and col. 7 lines 3 and col. 11 lines 15-21.

For claims 8 and 22, Focsaneanu discloses all the features of claim 6 including: “management module (246 of fig. 8) operable to select, for the first subscriber, a compression module supporting the first compression algorithm, col. 7 line 3, 552 col. 11, lines 20-22, col. 12 line 60; and a packetization module supporting the first data communication protocol, refer to col. 8 lines 11-43.

For claims 10, 24 and 42, Focsaneanu discloses all the features of claims 1, 15 and 32, including: “one or more network interface modules operable to communicate the first data packets----using first data link-----second data link-----second subscriber, refer to col. 4 lines 40—col. 5 line 12 and col. 45-65.

For claims 38 and 49, Focsaneanu discloses all the features of claim 332 including a network interface module operable to communicate the data packets using data link associated with the subscriber, refer to col. 8 lines 53-55, (access a plurality of different types of CPEs), col. 7 lines 12, col. 7 lines 26-35.

8. Claims 9, 12-13, 23, 26-27, 39-40 and 50-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Focsaneanu et al**, hereinafter, Focsaneanu; in view of **Chao et al**, hereinafter Chao, as applied to claims 1 above; further in view of **Pounds et al** (US Patent No. 6,560,222), hereinafter, Pounds.

For claims 9, 12-13, 23, 26-27, 39-40 and 50-53 both Focsaneanu and Chao disclose all the features and limitations of claims 9, 12-13, 23, 26-27, 39-40 and 50-53 with the exception of, “a management module operable to assign at least *one time slot of a time division multiplexing (TDM) bus* to communicate the first telecommunication information----“, as recited by claims 40, 51-53; “*echo cancellation modules ---on the first telecommunication interface*“, as recited by claims 12, 26, 39 and 50 and “*TDM bus---telecommunication information---and a data packet bus ---first data packets to packetization module---*“, as recited by claims 13 and 27;



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Pounds discloses “a management module operable to assign at least *one time slot of a time division multiplexing (TDM) bus* to communicate the first telecommunication information---“; refer to col. 8 lines 60-63; “*echo cancellation modules ---on the first telecommunication interface*, refer to col.8 lines 2; and “*a data packet bus ---first data packets to packetization module--- and TDM bus---telecommunication information---*“, refer to col. 9 lines 50-53; .

Pounds does not disclose expressly whether echo cancellation be used in the second telecommunication information, as recited by claims 12 and 26.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to assign at least *one time slot of a time division multiplexing (TDM) bus and echo cancellation* to communicate the first telecommunication information. The capability of using time slots of a time division bus is provided by combining it in access module 234 of fig. 8 . The suggestion/motivation to do so would have been to provide desired characteristics of voice data signals for customer premises network which uses broadband to deliver all services and also to save bandwidth.

9. Claims 14, 28, 41 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Focsaneanu et al**, hereinafter, Focsaneanu; in view of **Chao et al**, hereinafter Chao, as applied to claims 1, 15, 32 and 43 above; further in view of **Lyles et al** (US Patent no. 6,563,829), hereinafter, Lyles.

For claims 14, 28, 41 and 52, both Focsaneanu and Chao disclose all the features and limitations of claims 14, 28, 41 and 52 and, with the exception of the limitation, “*IEEE 802.6 bus operable to communicate the first data packets---*“;

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Lyles discloses, *"IEEE 802.6 bus operable to communicate the first data packets---*  
*"*;refer to col. 5 lines 9-11---for point to point link between user and terminal equipment sites;

It would have been obvious to a person of ordinary skill in the art at the time of the invention to use *"IEEE 802.6 bus operable to communicate the first data packets---**"*;refer to col. 5 lines 9-11---for point to point link between user and terminal equipment sites;. The capability of using *IEEE 802.6 bus* is provided by combining it in access module 234 of fig. 8. The suggestion/motivation to do so would have been to provide desired characteristics of voice data signals for customer premises network, as set forth in user profile, which uses broadband to deliver all services and also to save bandwidth.

*Allowable Subject Matter*

10 Claims 54-57 are allowed.

As recited by claim 54,

“ a digital subscriber line access multiplexer (DSLAM) operable to communicate at some of the data packetsgenerated by the gateway to an integrated access device using a digital subscriber line; and

a cable modem termination system (CMTS) operable to communicate at least some of the data packets generated by the gateway to a media terminal adapter (MTA) using a cable link.

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11. Claims 11, 25, 29-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

12. The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not disclose or suggest the following limitations:

As recited by claims 11 and 25,

“ the first data link communicates the first data packets to a digital subscriber line access multiplexer (DSLAM); and

the second data link communicates the second data packets to a cable modem termination system (CMTS) or base station controller (BSC)”;

As recited by claim 29,

“ communicating the first data packets to a digital subscriber line access multiplexer (DSLAM); using the first data communication protocol;

communicating the first data packets from the DSLAM to an integrated access device (IAD) using a digital subscriber line;

communicating the second data packets to a cable modem termination system (CMTS) using the second data communication protocol; and

communicating the second data packets from the CMTS to a media terminal adapter (MTA) using a cable link.

As recited by claim 30,

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“ communicating the first data packets to a digital subscriber line access multiplexer (DSLAM); using the first data communication protocol;  
communicating the first data packets from the DSLAM to an integrated access device (IAD) using a digital subscriber line;  
communicating the second data packets to a base station controller (BSC) using the second data communication protocol; and  
communicating the second data packets from the BSC to a wireless network interface unit (WNIU) using a wireless link”.

As recited by claim 31,

“ communicating the first data packets to a cable modem termination system (CMTS) using the first data communication protocol;  
communicating the first data packets from the CMTS to a media terminal adapter (MTA) using a cable link;  
communicating the second data packets to a base station controller (BSC) using the second data communication protocol; and  
communicating the second data packets from the BSC to a wireless network interface unit (WNIU) using a wireless link”.

***Prior Art***

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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- Strandwitz et al (US Patent No. 6,522,352) discloses self-contained wireless camera device, wireless camera system and method.

*Conclusion*

14. Any enquiry concerning this communication should be directed to Inder Mehra whose telephone number is (703) 305-1985. The examiner can be normally reached on Monday through Friday from 8:30AM to 5:00 PM.

If attempt to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Seema Rao , can be reached on (703) 308-5463. Any enquiry of a general nature of relating to the status of this application or processing should be directed to the group receptionist whose telephone number is (703) 305-4700.

15. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC. 20231

Or faxed to (703) 872-9314.

Hand -delivered responses should be brought to Crystal Park II, 2121 Crystal drive,

Arlington, VA, sixth floor (Receptionist).

*Inder Mehra*  
Inder Mehra

6/14/03

June 14, 2003

*[Signature]*  
DAN TON  
PRIMARY EXAMINER